

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P225259

Luminaire Tested: **LD2B15D010 EU2B15FL408050 2LBDSQLC*MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P225259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14838)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B15D010 EU2B15FL408050 2LBDSQLC*MB
Description: 1500 Lumen, 2inch Portfolio LED Downlight
FLOOD OPTIC
LENSED SQUARE CAST TRIM WITH MATTE BLACK FINISH
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1257.1 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.61 / 0.59
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

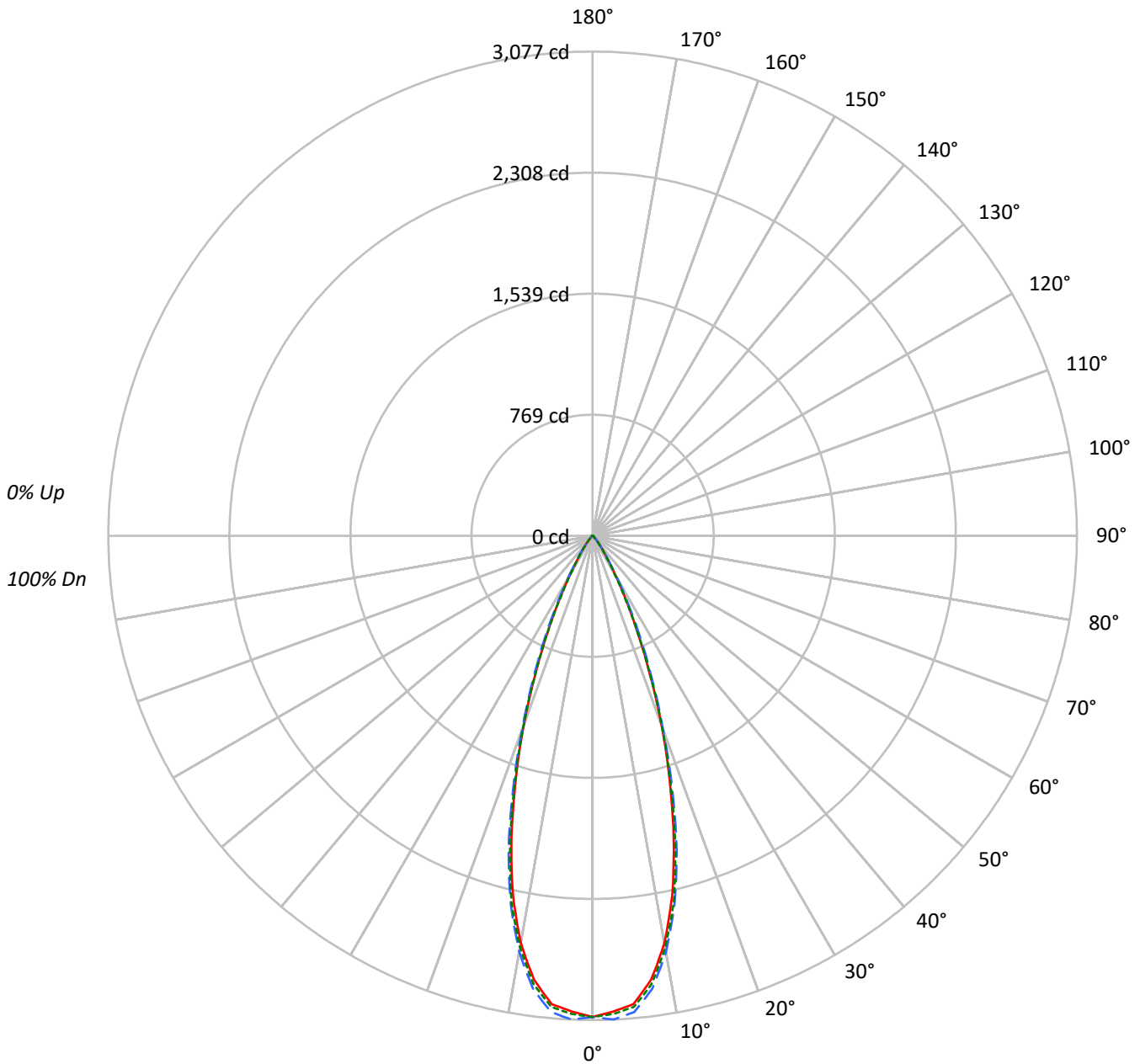
Input Watts (W): 14.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P225259

CATALOG NUMBER: LD2B15D010 EU2B15FL408050 2LBDSQLC*MB

Luminous Intensity Polar Plot





TEST NUMBER: P225259

CATALOG NUMBER: LD2B15D010 EU2B15FL408050 2LBDSQLC*MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91																			
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87																			
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83																			
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80																			
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	77																			
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73																			
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71																			
9	85	78	73	70	84	77	73	70	76	72	69	76	72	69	75	71	69	68																			
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1184659	1184659	1184659
5°	1161266	1181213	1168576
10°	1033373	1055596	1044819
15°	798411	827244	812847
20°	526716	537969	529519
25°	287291	307036	288787
30°	129305	143081	123938
35°	55798	57405	50975
40°	23361	24220	21642
45°	9367	10298	10298
50°	4098	5182	5182
55°	2296	2296	3444
60°	1317	1317	1317
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P225259

CATALOG NUMBER: LD2B15D010 EU2B15FL408050 2LBDSQLC*MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	22.0
10°-20°	550.3	43.8
20°-30°	325.0	25.9
30°-40°	84.6	6.7
40°-50°	16.7	1.3
50°-60°	3.7	0.3
60°-70°	0.3	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1151.8	91.6
0°-40°	1236.4	98.4
0°-60°	1256.8	100.0
0°-90°	1257.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3058	3058	3058	3058	3058	
5°	2987	3010	3038	3017	3005	273
15°	1991	2036	2063	2032	2027	540
25°	672	694	718	691	676	317
35°	118	123	121	120	108	83
45°	17	20	19	19	19	16
55°	3	3	3	3	5	4
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P225259

CATALOG NUMBER: LD2B15D010 EU2B15FL408050 2LBDSQLC*MB

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3058.4	3058.4	3058.4	3058.4	3058.4
2.5°	3025.9	3056.7	3077.2	3060.1	3041.3
5°	2986.6	3010.5	3037.9	3017.3	3005.4
7.5°	2846.3	2882.2	2902.7	2892.5	2873.7
10°	2627.3	2654.7	2683.8	2673.5	2656.4
12.5°	2338.3	2375.9	2403.3	2379.3	2382.7
15°	1991.0	2035.5	2062.9	2032.1	2027.0
17.5°	1623.3	1657.5	1676.3	1657.5	1643.8
20°	1277.8	1298.3	1305.1	1296.6	1284.6
22.5°	944.2	966.4	987.0	966.4	951.0
25°	672.2	694.5	718.4	691.0	675.7
27.5°	453.3	467.0	487.5	461.8	439.6
30°	289.1	304.5	319.9	301.1	277.1
32.5°	183.0	193.3	195.0	191.6	171.1
35°	118.0	123.2	121.4	119.7	107.8
37.5°	75.3	75.3	77.0	75.3	68.4
40°	46.2	49.6	47.9	46.2	42.8
42.5°	27.4	30.8	29.1	29.1	27.4
45°	17.1	20.5	18.8	18.8	18.8
47.5°	12.0	13.7	12.0	12.0	13.7
50°	6.8	8.6	8.6	8.6	8.6
52.5°	5.1	5.1	5.1	5.1	6.8
55°	3.4	3.4	3.4	3.4	5.1
57.5°	3.4	3.4	1.7	1.7	3.4
60°	1.7	1.7	1.7	1.7	1.7
62.5°	1.7	0.0	0.0	0.0	1.7
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)